ATTORNEY DOCKET NO.: 14014.0266U3 APPLICATION NO.: 10/700,249

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (previously presented) A DNA segment encoding a human type α PDGF receptor protein.
- 2. (previously presented) A DNA segment according to claim 1, wherein said segment comprises genomic clone T11 or cDNA clone TR4.
- 3. (previously presented) A DNA segment, according to claim 1, wherein said protein has the amino acid sequence defined in Figure 3.
- 4. (previously presented) A recombinant DNA molecule comprising a DNA segment according to claim 1 and a vector.
- 5. (previously presented) A culture of cells transformed with a DNA segment according to claim 1.
- 6. (previously presented) A method of producing a human type α PDGF receptor protein comprising culturing cells according to claim 5 under conditions such that said protein is produced and isolating said protein from said cells.
- 7. (previously presented) A human type α PDGF receptor protein having the amino acid sequence defined in Figure 3.

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- 8. (previously presented) An antibody specific for a protein having the amino acid sequence of a type α human PDGF receptor protein, according to claim 7.
- 9. (previously presented) An antibody according to claim 8, wherein said antibody is specific for only a type α PDGF receptor protein.
- 10. (previously presented) An antibody specific for a protein having the amino acid sequence of a type β human PDGF receptor protein, wherein said antibody is specific for only a type β human PDGF receptor protein.
- 11. (previously presented) A bioassay for expression of a type α PDGF receptor gene comprising the steps of:
 - i) contacting a biological sample suspected of containing RNA with a DNA probe comprising a DNA segment according to claim 1, under conditions such that a DNA:RNA hybrid molecule containing said DNA probe and complementary RNA is formed; and
 - ii) determining the amount of said DNA probe present in said hybrid molecules.
- 12. (previously presented) A bioassay for a type α PDGF receptor antigen comprising the steps of:
 - i) contacting a biological sample suspected of containing polypeptides with an antibody according to claim 8, under conditions such that a specific complex of said antibody and said antigen is formed; and
 - ii) determining the amount of said antibody in said complexes.

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- 13. (previously presented) A bioassay for type β PDGF receptor antigen comprising the steps of:
 - i) contacting a biological sample suspected of containing polypeptides with an antibody according to claim 10, under conditions such that a specific complex of said antibody and said antigen is formed; and
 - ii) determining the amount of said antibody in said complexes.
- 14. (currently amended) A method of evaluating binding affinity of a test compound to alpha platelet derived growth factor receptor (α PDGFR) or beta platelet derived growth factor receptor (β PDGFR), α PDGF receptor, said method comprising the steps of:
- a) contacting a sample containing said receptor with
- (i) an antibody which specifically binds α PDGFR or β PDGFR or a fragment thereof wherein the antibody is selected from the group consisting of (a) monoclonal antibody and (b) polyclonal antibody the monoclonal antibody or fragment thereof of claim 8; and
 - (ii) said test compound;
- b) measuring the amount of said monoclonal antibody or fragment thereof, said amount being inversely proportional to the amount of test compound which bound to said receptor.
- 15. (newly added) The method of claim 14, wherein the test compound is an agonist.
- 16. (newly added) The method of claim 14, wherein the test compound is an antagonist.

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17. (newly added) The method of claim 14, wherein the test compound is a PDGF-

AA isoform.

18. (newly added) The method of claim 14, wherein the test compound is a PDGF-AB

isoform.

19. (newly added) The method of claim 14, wherein the test compound is a PDGF-BB

isoform.

20. (newly added) The method of claim 14, wherein the antibody or fragment thereof

is specific for a protein having the amino acid sequence of a human type α PDGF receptor

protein.

21. (newly added) The method of claim 14, wherein the antibody or fragment thereof

is specific for a protein having the amino acid sequence of a human type β PDGF receptor

protein.

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